

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Underground Storage Tanks Program Office 75 Hawthorne Street (WST-8) San Francisco, CA 94105

April 25,2000

REFER TO WST-8 AND SITE #WMAP-004 Certified Mail: P 389 854 761

Ms. Elaine Kessay
White River Unified School District #20
Transportation Department
P. O. Box 190
Whiteriver, AZ 85027

Dear Ms. Kessay:

This correspondence refers to the tank removal report prepared by the Verde Company for the removal of one underground storage tank (UST) at the Transportation Department of the White River Unified School District #20 in Whiteriver, Arizona, on land of the White Mountain Apache Tribe.

Our review of the closure documents and analytical results for soil samples collected at the UST site indicates no hydrocarbon concentrations above appropriate EPA, Region IX or tribal soil cleanup levels.

The information submitted has assisted EPA in assessing the status of this site, where one 4,000-gallon UST was removed on June 29, 1999. This site does not appear to pose a current threat to human health and the environment. Therefore, EPA is not requiring further action at this time.

Moufor Glosson, for

Sincerely.

Lester Kaufman, Chief

Underground Storage Tanks Program Office

Enclosure

cc: Kirk Massey, Sr., White Mountain Apache Tribe, EPO Benjamin H. Nuvamsa, Bureau of Indian Affairs Dennis Williams, Indian Health Service

Attachment: List of Contacts

Kirk Massey, Sr. Environmental Planning Office White Mountain Apache Tribe P. O. Box 1150 Whiteriver, AZ 85941

(520) 338-4346, Ext. 225

Benjamin H. Nuvamsa, Superintendent Bureau of Indian Affairs, Ft. Apache Agency P. O. Box 560, Whiteriver, AZ 85941

(520) 338-5353

Dennis Williams, District Sanitarian Indian Health Service P. O. Box 2430 Pinetop, AZ 85935

(520) 338-4911

REFER TO WST-8 AND SITE #WMAP-004 Certified Mail: P 389 854 761

April 25, 2000

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX

Underground Storage Tanks Program Office 75 Hawthorne Street (WST-8) San Francisco, CA 94105

REFER TO WST-8 AND SITE #WMA-004 Certified Mail P 389 855 302

Ms. Dawn Vann The Verde Companies, Inc. 2703 Union Drive, Suite 1 Cottonwood, AZ 86326

Dear Ms. Vann:

This correspondence refers to your letter dated June 11, 1999 regarding the removal of one 6,000-gallon and one 15,000-gallon underground storage tank (UST) at the White River Unified School District #20. These USTs are located at the transportation department and middle school, respectively. Both sites are located on land of the White Mountain Apache Tribe.

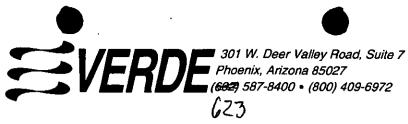
The following is a summary of our current requirements for tank removals and related information regarding tank owner/operator duties and responsibilities:

The regulations require that the owner/operator notify the U.S. Environmental Protection Agency (U.S. EPA) at least thirty days before the initiation of the planned UST removal. This notification period may be shortened only by agreement of the U.S. EPA and the respective tribal authorities with an accelerated schedule. Legible postmarks are acceptable as the beginning of the 30-day notification period. Your letter dated June 11, 1999 showed a planned removal date of June 28 to June 30, 1999. This date has been coordinated with Mr. Walter Guggenheimer, U.S. EPA, Region IX and Kirk Massey of the tribal environmental office who will be on-site during all activities associated with the tank removal. Any change in the removal date must be discussed directly with Mr. Massey at the telephone number and address listed on the enclosure to this letter.

The tank owner/operator is responsible for meeting all regulatory requirements. If the contractor is to represent the owner, the U.S. EPA must be notified in writing prior to the tank removal date. However, please be aware that the tank owner/operator is ultimately responsible for meeting the requirements of Title 40 of the Code of Federal Regulations, Part 280 (40 CFR §280).

The crew chief in charge of tank removals must be experienced in the applicable industry standards and government regulations, including those of the U.S. EPA, OSHA and applicable tribal regulations. The availability at the tank site of proper equipment for carrying





PERMANENT CLOSURE OF ONE UNDERGROUND STORAGE TANK SYSTEM

WHITERIVER UNIFIED SCHOOL DISTRICT TRANSPORTATION DEPARTMENT 200 CEMETARY ROAD WHITERIVER, ARIZONA 85941

EPA Facility ID# WMA-004

Prepared for:
Whiteriver Unified School District #20
PO Box 190
Whiteriver, Arizona 85941

Prepared by: The VERDE Companies, Inc. 301 W. Deer Valley Road, Ste. 7 Phoenix, Arizona 85027

July 30, 1999

Richard T. McNerney

President

PERMANENT CLOSURE OF ONE LEDERGROUND STORAGE TANK SYSTEM Whiteriver Unified School District - Responsation Department 200 Cemetary Road Whiteriver, AZ 85941 EPA Facility ID# WMA-004

UST PERMANENT CLOSURE ASSESSMENT REPORT FORM

Fire Authority Closure Permit # N/A

1.0 SITE IDENTIFICATION NUMBERS

Facility ID # WMA-004

2.0 **LOCATION OF TANK(S)** 3.0 OWNERS OF TANK(S) Whiteriver Unified School - Transportation Dept. Whiteriver Unified School District #20 Facility Name Owner Name 200 Cemetary Road Elaine Kessay Street Address (no P.O Box #'s) Contact Person Whiteriver, AZ 85941 PO Box 190 City, State, Zip Code Mailing Address <u>Navajo</u> Whiteriver, AZ 85941 County City, State, Zip Code

ADEQ Closure # N/A

Legal Location (township, range, section, ¼, ¼, ¼) T-5 N, R-22 E, Sec. 13, NW ¼, SW ¼, NE ¼

Telephone Number (include area code) (520) 338-4842 ext. 274

4.0 CONTRACTOR, LABORATORY AND CONSULTANT INFORMATION

Contractor: The VERDE Companies, Inc.	Certified Individual Randy Kenley	
ADEQ Certification No.: <u>D00013</u>	Phone No.: (520) 646-0152	
ROC License No.: <u>113176</u>	Type of License: B-1, L-57, L-5 Other:	
Laboratory Name: Orange Coast Analytical, Inc.	ADHS License No.: AZ0558	
Contact Name: Mike Lanzieri	Phone No.: (602) 736-0960	
Consultant: The VERDE Companies, Inc. Contact	Name: Richard T. McNerney	Phone No.: (602) 587-8400



PERMANENT CLOSURE OF ONE DERGROUND STORAGE TANK SYSTEM Whiteriver Unified School District - The Sportation Department 200 Cemetary Road Whiteriver, AZ 85941 EPA Facility ID# WMA-004

undergoing a change-in-service: 1 C. Will new tanks be installed? YesXNo	5.0 SITE INFORMATION		6.0	SITE PREPARATION
undergoing a change-in-service: 1 C. Will new tanks be installed? Yes X No if yes, how many? When? Date: 6/28/99 Time: P.M. C. Method of inerting or purging: CO2 pumped into tanks. d. Date of closure or change-in-service: Date: 6/29/99 d. Date of closure or change-in-service: Date: 6/29/99 Time: P.M. C. Method of inerting or purging: CO2 pumped into tanks. d. Date of closure or change-in-service: Date: 6/29/99 Time: P.M. C. Method of inerting or purging: CO2 pumped into tanks. d. Date of closure or change-in-service: Date: 6/29/99 Time: P.M. C. Method of inerting or purging: CO2 pumped into tanks. Date: 6/29/99 Date: 6/28/99 Time: P.M. C. Method of inerting or purging: CO2 pumped into tanks. Interview of closure or change-in-service: Date: 6/29/99 Date: 6/28/99 Time: P.M. C. Method of inerting or purging: CO2 pumped into tanks. Date: 6/28/99 Time: P.M. C. Method of inerting or purging: CO2 pumped into tanks. Date: 6/28/99 Time: P.M. C. Method of inerting or purging: CO2 pumped into tanks. Date: 6/29/99 Date: 6/28/99 Time: P.M. C. Method of inerting or purging: CO2 pumped into tanks. Date: 6/29/99 Date: 6/28/99 Time: P.M.			produc	t and accumulated sludges:
yes x No pumped into tanks. if yes, how many?	b. Number of tanks being closed or undergoing a change-in-service: 1			4.0
d. Date of closure or change-in-service: Date: 6/29/99 d. Depth to groundwater (if known): unknown Source: Date: 6/29/99 *do not include previously closed tanks 7.0 INERT SOLID MATERIAL USED TO CLOSE TANK IN-PLACE X Not Applicable-Tank(s) Excavated Sand Soil Slurry Not Applicable-Change-In-Service (CIS) Concrete Other: 8.0 DIMENSION OF TANK EXCAVATION (S) Not Applicable-CIS or in-place closure Excavation I: Excavation II (complete only if applicable):	c. Will new tanks be installed? Yes X No if yes, how many?		c. Met	
Source:Date:*do not include previously closed tanks 7.0 INERT SOLID MATERIAL USED TO CLOSE TANK IN-PLACE X Not Applicable-Tank(s) Excavated SandSoil Shurry Not Applicable-Change-In-Service (CIS) Concrete Other: 8.0 DIMENSION OF TANK EXCAVATION (S) Not Applicable-CIS or in-place closure Excavation I: Excavation II (complete only if applicable):	When?			
7.0 INERT SOLID MATERIAL USED TO CLOSE TANK IN-PLACE X Not Applicable-Tank(s) ExcavatedSandSoil Slurry Not Applicable-Change-In-Service (CIS)ConcreteOther: 8.0 DIMENSION OF TANK EXCAVATION (S) _Not Applicable-CIS or in-place closure Excavation I: Excavation II (complete only if applicable):		<u></u>		
X Not Applicable-Tank(s) ExcavatedSandSoil Slurry Not Applicable-Change-In-Service (CIS)ConcreteOther: 8.0 DIMENSION OF TANK EXCAVATION (S) Not Applicable-CIS or in-place closure Excavation I: Excavation II (complete only if applicable):				
Not Applicable-Change-In-Service (CIS)ConcreteOther:	7.0 INERT SOLID MATERIAL USED TO	CLOSE TANK IN	N-PLAC	PE.
8.0 DIMENSION OF TANK EXCAVATION (S) _Not Applicable-CIS or in-place closure Excavation I: Excavation II (complete only if applicable):	X Not Applicable-Tank(s) Excavated	Sand		Soil Slurry
Not Applicable-CIS or in-place closure Excavation I: Excavation II (complete only if applicable):	Not Applicable-Change-In-Service (CIS)	Сопстете		Other:
Excavation I: Excavation II (complete only if applicable):	8.0 DIMENSION OF TANK EXCAVATIO	N (S)		
	Not Applicable-CIS or in-place closure			
Length 30ft Width 10ft Depth 8ft Length Width Depth	Excavation I:	Excavation II (co	mplete o	only if applicable):
	Length 30ft Width 10ft Depth 8ft	Length Wi	dth	_ Depth

9.0 TANK INFORMATION

Tank No.	Size (gallons)	Material of Construction	Contents Stored	Holes in Tank (yes or no)	Holes in Piping (yes or no)	Unregulated* substance stored
T-1	4,000	Steel	Gasoline	Possible	None	NA

^{*}Complete only for tanks undergoing a CIS



PERMANENT CLOSURE OF ONE PERGROUND STORAGE TANK SYSTEM Whiteriver Unified School District - The sportation Department 200 Cemetary Road Whiteriver, AZ 85941 EPA Facility ID# WMA-004

10.0	VICTIAL	ASSESSMENT
TU.U	VINIIAI.	ASSESSMENT

D	the following conditions exist:	
St	ained Soil: X YesNo	Water in Excavation: Yes X No
Pe	troleum Odor in Soil: X Yes No	Sheen or Free Product on Water:YesX_No
Fr	ee Product in Excavation:Yes _XNo	Evidence of Spill and/or Overfill: X Yes No
no	ote: If at any time during the closure or CIS activity contactified within twenty-four (24) hours of discovery. The relevant 202) 207-4364 or at 1-800-234-5677, ext. 4364.	mination is discovered or believed to exist, ADEQ must be ase or suspected release should be reported by calling ADEQ at
11	.0 SOIL INVESTIGATION PROCEDURES	
a.	Were all soil samples collected by pushing or driving cle backhoe or track-hoe bucket per the attached Sampling (an sleeves, constructed of an inert material, into the Guidelines? XYesNo
	If no, describe why not, and alternative method used:	
b.	Describe how sleeves were sealed and labeled: Sleeves we plastic caps, and sealed with non-contaminating tape; and location (example: Tank Pit N). The date and tin name were included on the label.	each sample was labeled according to tank number
C.	Were all soil samples preserved at approximately 4 degree \underline{X} YesNo	es Centigrade prior to delivery to the laboratory?
lf 1	no, describe why not:	
d.	Describe decontamination procedures for soil sampling e decontaminated in an Alconox solution, then double-ri	quipment: All equipment was thoroughly insed in clean, potable water and allowed to air dry.
Э.	Do field investigations indicate contamination? X Yes	5No
f y	es, what was the methodology used and where were the horfills, stained soil and petroleum odor in soil.	t spots located?: Field observations indicate spills and
Ē.	Estimated volume of excavated soils (cubic yards): 0 cub	ic yards
3.	Number of samples taken from stockpile: 1	



PERMANENT CLOSURE OF ONE USERGROUND STORAGE TANK SYSTEM Whiteriver Unified School District - The Sportation Department 200 Cemetary Road Whiteriver, AZ 85941 EPA Facility ID# WMA-004

12.0 SITE MAP (To be provided as an attachment to this report form and prepared to scale)

a.	Are all tanks, dispensers and associated piping shown on the site map? XYes No
	If no, describe why not:
b.	Is the length, width, depth and location of unions and areas of corrosion for each piping run (trench) shown on the Site Plan? X Yes No
÷	If no, describe why not:
C.	Are all excavations and stockpiles (including stockpiled PCS) shown on the Site Plan? X YesNo
	If no, describe why not:
d.	Are all sampling locations and areas of contamination shown on map? X YesNo
	If no, describe why not:
e.	Are all cross streets and major structures (i.e. buildings) near the excavation zone(s) shown on the Site Plan?
	XYes No
If n	o, describe why not:



PERMANENT CLOSURE OF ONE VENERGROUND STORAGE TANK SYSTEM Whiteriver Unified School District - The sportation Department 200 Cemetary Road Whiteriver, AZ 85941 EPA Facility ID# WMA-004

13.0 LABORATORY RESULTS

a. Identify all samples (including stockpile samples), location of each sample, depth of each sample, soil lithology of each sample and analytical test results of each sample in the table below. (NOTE: ASTM Standard D 2488-93 or a comparable standard should be used when classifying soil lithology). Copies of the laboratory results, including QA/QC information and an original, legible chain-of-custody should be provided as an attachment to this report form. Refer to ASTM Standard D 4840-88 for chain-of-custody procedures. Laboratory results below are presented in parts per million (ppm).

Sample ID No.	Location of Sample	Depth (ft)	Soil Type	TPH as Gasoline mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl- benzene mg/kg	Xylenes mg/kg
Tank Pit N	Beneath north end of former 4,000 gallon Gasoline Tank 1	13 ft	Native	<5.0	<0.05	<0.1	<0.1	0.16
Tank Pit S	Beneath south end of former 4,000 gallon Gasoline Tank 1	13 ft	Native	31	<0.05	<0.1	0.35	2.1
Piping Trench	Beneath former piping	3 ft	Native	17	0,13	<0.1	0.16	0.58
Dispenser	Beneath former dispenser	2 ft	Native	29	<0.05	0.12	0.43	1.5
Stockpile	Within stockpile	N/A	Native	26	<0.50	<0.1	0.17	0.94

^{*} If VOC's have been detected, use an X to identify the appropriate sample(s) and use the table on page 6 to provide analytical data.

b. Laboratory Reporting Limits

TPH as Gasoline: 5 mg/kg (ppm)

Benzene: 0.05 mg/kg Toluene: 0.10 mg/kg Ethlybenzene: 0.10 mg/kg Xylenes: 0.15 mg/kg

NOTE: For non-detects, list the numerical reporting limit, for example, "< 0.25". Do not use ND.



PERMANENT CLOSURE OF ONE PERGROUND STORAGE TANK SYSTEM Whiteriver Unified School District - Transportation Department 200 Cemetary Road Whiteriver, AZ 85941 EPA Facility ID# WMA-004

13.0 LABORATORY RESULTS (Continued)

	Holding time (hours) 72. NOTE: Soil samples to be analyzed for BTEX or other VOC's should be extracted within 72 hours of collection. ADEQ may extend the 72 hour limit to 120 hours with site-specific pre-approval. ADEQ may not consider samples exceeding the extraction holding time as valid and may require additional sampling.
d.	If an extension of the holding time has been granted by ADEQ, provide the date and time the extension was granted and the name of the ADEQ representative that granted the extension. N/A
Date	Time: ADEQ Representative:
14.0	A
15.0	SERVICE PROVIDER CERTIFICATION
Sign	ature: MMd MMMy Date: July 30, 1999
Nam	ne: (print): Richard T. McNerney Title: President
Com	pany Name: The VERDE Companies, Inc.
Add	ress: 301 W. Deer Valley Road, Ste. 7
City	: Phoenix State: Arizona Zip: 85027
Phor	ne: (602) 587-8400 Fax: (602) 587-8942
Whe	re registration is required by the Board of Technical Registration, please affix seal below:
	, and the second
	·
ADE	Q would appreciate receiving the consultant's response to the following question:
"In y	our professional opinion, has there been a release of a regulated substance at this site?"
*X	YesNo

* Analytical results received 7/14/99 showed evidence of TPH and BTEX concentrations.

16.0 VOC RESULTS-N/A



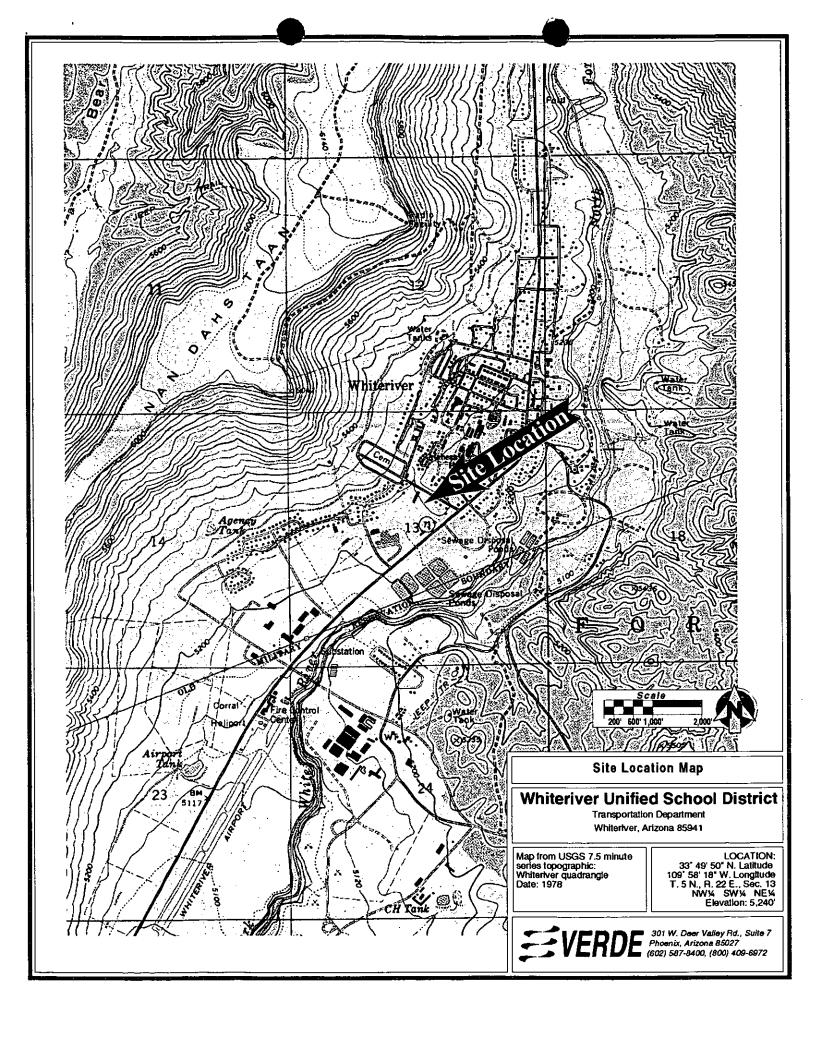
APPENDIX A

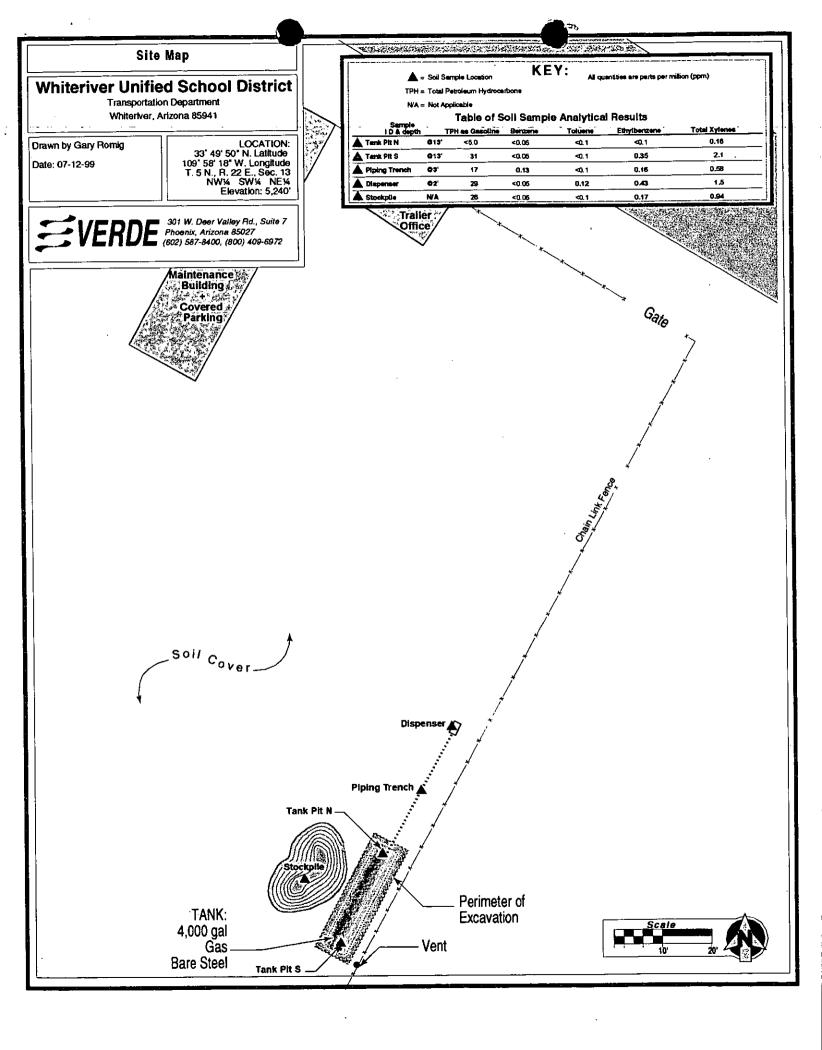
Whiteriver Unified School District Transportation Department 200 Cemetary Road Whiteriver, Arizona 85941

EPA Facility ID# WMA-004

SITE MAPS
UNDERGROUND STORAGE TANK SYSTEM WORKSHEET









Client	Whiteriver Unified School District							
	Transportation Department							
Address Whiteriver, AZ 85941								
Date	Date 06-29-99							

Underground Storage Tank System Worksheet

Item	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6	Tank 7	Tank 8
Tank size (in 1000 Gallons)	1 1							<u> </u>
Year tank Installed	1971							!
Product Stored	Gas					!		
Tank Construction	Stl				L			
Corrosion Protection: Tank	No						<u> </u>	
Overfill Prevention: Tank	No					L		
Spill Prevention: Tank	No						<u> </u>	
Total Depth of Tank	81					L	<u> </u>	
Diameter of Tank	51					<u> </u>	Ļ	
Length of Tank	24'							<u></u>
Secondary Containment: Tank	No				<u></u>	L		<u> </u>
Pumping System Type	Suction							
Piping Construction	Stl							
Corrosion Protection: Piping	No			<u></u>				
Line Leak Detection: Piping	No							
Secondary Containment: Piping	No							
LEL %	N/A							
Oxygen %	<118					<u></u>	<u></u>	
Date	6/29/99							
Amount of Water in Tank (inches)	O"					<u></u>	<u></u>	
Product Level Inches	T					<u> </u>	<u></u>	

	V AV

STL-Steel FBG-Fiberglass S/Fbg-Steel coated with Fiberglass

Notes:

APPENDIX B

Whiteriver Unified School District Transportation Department 200 Cemetary Road Whiteriver, Arizona 85941

EPA Facility ID# WMA-004

PHOTOGRAPHIC ESSAY



UNDERGROUND STORAGE TANK REMOVAL
Whiteriver Unified School District, Transportation Department
Whiteriver, Arizona
Photo Essay

Photograph 1. A view of the fuel system location along the eastern edge of the property. Note the dispenser seen in the left center of the photo.

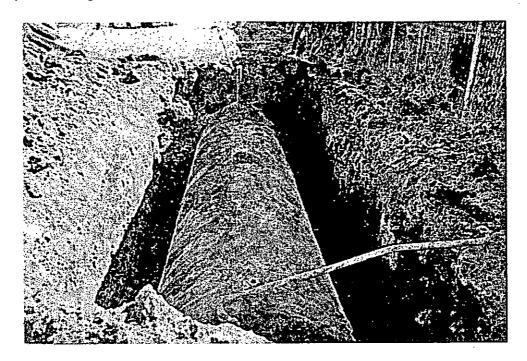


Photograph 2. This view looking south shows the UST partially excavated.



UNDERGROUND STORAGE TANK REMOVAL Whiteriver Unified School District, Transportation Department Whiteriver, Arizona **Photo Essay**

Photograph 3. Looking north, a view of the UST with the excavation nearly complete.

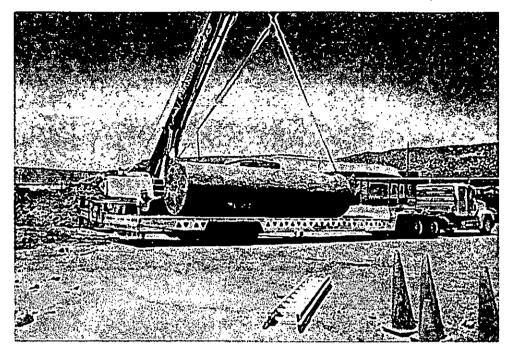


Photograph 4. A view of the excavation zone after UST removal.

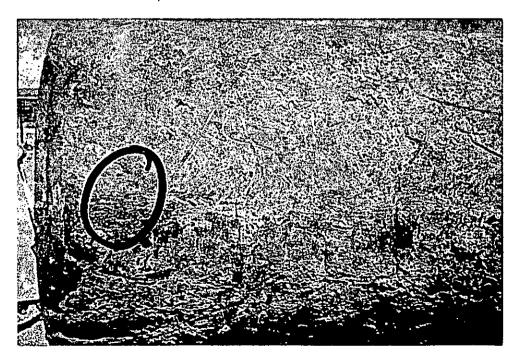


UNDERGROUND STORAGE TANK REMOVAL
Whiteriver Unified School District, Transportation Department
Whiteriver, Arizona
Photo Essay

Photograph 5. The UST is loaded onto a flatbed trailer for transportation to the disposal site.



Photograph 6. A view of the UST with possible holes in it circled.



APPENDIX C

Whiteriver Unified School District Transportation Department 200 Cemetary Road Whiteriver, Arizona 85941

EPA Facility ID# WMA-004

CERTIFICATE OF TANK DISPOSAL



NEW STEEL DEMOLITION USED STEEL 215 N. PERRY LANE TEMPE, AZ 85281 (602) 303-9784 Fax 303-9783

SCRAP YARD FERROUS & NONFERROUS METALS EVERYTHING USEABLE

July 12,1999

The Verde Company 2703 Union Drive Suite 1 cotton wood, Arizona 85326

ATTN:

Dawn-

RE:

Death Certificate (White Mountain Apache Tribe)

,

Dear Dawn:

Busby Metal received from your organization Two (2) Steel Underground Storage Tanks with original capacities of Six (6) Thousand and Fifteen (15) Thousand gallons,

These tanks were identified as being removed from the Transportation Yard (6,000 gal) the other (15,000 gal) north of the Maintenance Shop at the White River Unified School District #20. Both located on lands of the White Mountain Apache Tribe, Arizona; under Region 9 E P A closure authorization Letter WST-8 WMA Site 004 dated June 14, 1999.

At the time of their receipt at our Tempe Arizona location, these tanks were visually inspected and did not appear to contain either product or debris. 15,000 gallon tank Fornerly contained Diesel and the 6,000 gallon tank formerly contained Gasoline. These tanks were subsequently "Sheared" and "Cut-up" and disposed of as "Scrap Metal' suitable for "Re-melt".

Yours truly,

R. P. Murphy

Controller

APPENDIX D

Whiteriver Unified School District Transportation Department 200 Cemetary Road Whiteriver, Arizona 85941

EPA Facility ID# WMA-004

LABORATORY ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY DOCUMENTATION





3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (602) 736-0960 Fax (602) 736-0970

The Verde Company ATTN: Mr. John Tichi 2703 Union Drive

Cottonwood, AZ 86326

Client Project ID: White River Unified School Distric

Client Project #: Transportation Dept.

06/29/9

Analyzed:

07/02/99

Reported:

Sample Description: Soil

Laboratory Reference #: TVC AZ1484

Laboratory Sample Number	Client Sample Number	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	TPH as Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	MB0702	<0.05	<0.1	<0.1	<0.15	<5.0	96
A99070008	Tank Pit N	<0.05	<0.1	<0.1	0.16	<5.0	91
A99070009	Tank Pit S	<0.05	<0.1	0.35	2.1	31	232*
A99070010	Piping Trench	0.13	<0.1	0.16	∙0.58	17	166*
A99070011	Dispenser	<0.05	0.12	0.43	1.5	29	182*
A99070012	Stockpile	<0.05	<0.1	0.17	0.94	26	270*

^{*} Matrix Interference

ORANGE COAST ANALYTICAL

Mark Noorani Laboratory Director

Sampled:

Received:

07/06/99

07/07/99

QC DATA REPORT

Date of Analysis: 07/07/99

Laboratory Sample No: OCA200

Laboratory Reference No: TVC AZ1484

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppm)	(ppm)	(ppm)	(ppm)	%	%	%
Hydrocarbons	0.00	1000	1216	1345	122	135	10

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

ORANGE COAST ANALYTICAL

Laboratory Director

QC DATA REPORT

Date of Analysis: 07/08/99

Laboratory Sample No : OCA 200

Laboratory Reference No: TVC AZ1484

Analyte	R1 (mg/kg)	SP (mg/kg)	MS (mg/kg)	MSD (mg/kg)	PR1 %	PR2 %	RPD %
Benzene	0.00	1.00	1.08	1.12	108	112	4
Toluene	0.00	1.00	1.04	1.10	104	110	6
Ethylbenzene	0.00	1.00	1.04	1.10	104	110	6
Xylenes	0.00	3.00	2.89	3.01	96	100	4

Definition of Terms:

R1 Results Of First Analysis

SP Spike Concentration Added to Sample

MS Matrix Spike Results

MSD Matrix Spike Duplicate Results

PR1 Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2 Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

ORANGE COAST ANALYTICAL

Mark Noorani Laboratory Director

QC DATA REPORT

Date of Analysis: 07/06/99

Laboratory Sample No: A99070004

Laboratory Reference No: TVC AZ1484

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD
	(ppm)	(ppm)	(ppm)	(ppm)	%	%	%
Hydrocarbons	0.00	25	27	24	107	96	11

Definition of Terms:

R1

Results Of First Analysis

SP

Spike Concentration Added to Sample

MS

Matrix Spike Results

MSD

Matrix Spike Duplicate Results

PR1

Percent Recovery Of MS: {(MS-R1) / SP} x100

PR2

Percent Recovery Of MSD: {(MSD-R1) / SP} x 100

RPD

Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

ORANGE COAST ANALYTICAL

Mark Noorani

Laboratory Director

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POLITABILITY

CHAIN OF CUSTUDI/LABORATOR! ATTACK

5000 REMARKS 8 3 110 a State of 29 (XOV) 101 A S 38 COZ. PAGE ANALYSIS REQUESTED MAKE BEDRAMINE Reproduces to technique yearle 21-95 ave B Report peculies (R.P. IES LESS, as expand may be charged to surpers REPORT REDUREMENTS A Den Variation Person N. CLP Delectable Repair WHITE . HOW IN THE WELLOW US. 3002 E.A.S. LIMMOSSY Divine, Suido D.R. «Pholenes, A.Z. 85034 + (602) 437 2001 + (800) 845-7222 + F.A.K (602) 437-5308 XXX for Whitewire. Bank SPECIAL INSTRUCTIONS/COMMENTS: TUTALIBOURD REQUIREMENTS 21 Lan 150 Prouds FAX prohimany Results Sandard (14-15 earling dept rvorde vlettal frektieren. Resuts Requested Aspert Date Del'hen Hon NUMBER OF CONTAINERS COMPANYADORESS 2163 LANGE DEC. THE SERVE CO. SAMPLE PHONE C16 2152 흸 32 RECEIVED BY. 39 37535 70 Printed Name 66/2 Pubolime Signature Fifth 3:00 3 11:00 PROJECT NAMEDEDS. S. USA. MEMILES. 12:00 50.51 111 00 11:00 49711 00: 7 PROJECT MANGER JOHN JOHN DATE 25. 2 429 1 Ē 7 2001 RELIMOUISHED BY: REZINOUSHED BY: SAUPLERS SIGNATURE WINDS TANKE Fin 154.05 Cores Laure 112-2-1 A TO BEE 57050 7 Ditaile To More Printed Name SAMPLE LD O.B. Tribe Sude Spire TO NAME The Head Fimi 2101.0 4 4 4 4